

# METHOD AND SYSTEMS FOR SETTING AUTOMATIC GUN TRIGGERING PARAMETERS IN AUTOMATED SPRAY COATING SYSTEMS

## Abstract

A system and method for controlling triggering of spray guns in an automatic spray coating system, includes a hand-held pendant having input controls for entering spray gun "on" and spray gun "off" control parameters based upon observation of parts as they are conveyed past the spray guns by a conveyor. Gun triggering controls for optimized spray patterns, including extended and restricted spray patterns and combinations thereof, are entered and saved in a gun triggering controller according to an operator's inputs which include START SPRAY, STOP SPRAY, SAVE and SET PICKOFF controls. Multiple gun control parameters are stored as unique part coating recipes in the controller and are executable in look-ahead sequence based upon part identification as parts are conveyed toward the spray guns. The multiple gun control parameters are calculated by the controller from a fixed Pickoff distance

from a part identification sensor to the spray guns.